

**FY 2014 Journal Publications:**

**A. Publications whose intellectual content was driven by this program**

“Uniform doping of metal oxide nanowires using solid state diffusion”, Resasco J, Dasgupta NP, Rosell JR, Guo J and **Yang P.**, *J Am Chem Soc.* vol. 136(29), p. 10521-6, **2014**. doi: 10.1021/ja505734s.

“Salt-induced self-assembly of bacteria on nanowire arrays”, Sakimoto KK, Liu C, Lim J and **Yang P.**, *Nano Lett.* vol. 14(9), p. 5471-6, **2014**. doi: 10.1021/nl502946j.

“Hole Transfer Dynamics from a CdSe/CdS Quantum Rod to a Tethered Ferrocene Derivative”, Tarafder K, Surendranath Y, Olshansky JH, **Alivisatos PA** and **Lin-Wang Wang**, *JACS* vol. 136, p. 5121-5131, **2014**. DOI: 10.1021/ja500936n.

“Real-Time Visualization of Nanocrystal Solid-Solid Transformation Pathways”, Wittenberg JS, Miller TA, Szilagyi E, Lutker K, Quirin F, Lu W, Lemke H, Zhu D, Chollet M, Robinson J, Wen H, Sokolowski-Tinten K and **Alivisatos AP**, *Nano Lett.* vol. 14(4), p. 1995-9, **2014**. DOI: 10.1021/nl500043c

“Simultaneously Efficient Light Absorption and Charge Separation in WO<sub>3</sub>/BiVO<sub>4</sub> Core/Shell Nanowire Photoanode for Photoelectrochemical Water Oxidation”, Rao PM, Cai L, Liu C, Cho I, Lee C, Weisse JM, **Yang P** and **Zheng X.**, *Nano. Lett.* vol. 14, p. 1099, **2014**. DOI: 10.1021/nl500022z

“Semiconductor Nanowires: Synthesis, Characterization, and Applications”, Dasgupta NP, Sun J, Liu C, Brittman S, Andrews SC, Lim J, Gao H, Yan R and **Yang P.**, *Adv. Mater.* vol. 26, p. 2137, **2014**. DOI: 10.1002/adma.201305929

“Seeded Synthesis of CdSe/CdS Rod and Tetrapod Nanocrystals”, Manthiram K, Beberwyck B, Talapin DV and **Alivisatos AP**, *J. Vis. Exp.* vol. 82, p. 50731, **2013**. DOI: 10.3791/50731

“Zigzag inversion domain boundaries in indium zinc oxide-based nanowires: structure and formation”, Goldstein AP, Andrews SC, Berger RF, Radmilovic VR, **Neaton JB** and **Yang P.**, *ACS Nano.* vol. 7(12), p. 10747-51. DOI: 10.1021/nn403836d.

“Doped nanocrystals as plasmonic probes of redox chemistry”, Jain PK, Manthiram K, Engel JH, White SL, Faucheaux JA and **Alivisatos AP**, *Angew Chem Int Ed Engl.* vol. 52(51), p.13671-5, **2013**. DOI: 10.1002/anie.201303707.

“Femtosecond M2,3-Edge Spectroscopy of Transition-Metal Oxides: Photoinduced Oxidation State Change in alpha-Fe<sub>2</sub>O<sub>3</sub>”, Vura-Weis J, Jiang CM, Liu C, Gao H, Lucas JM, F. de Groot FM, **Yang P**, **Alivisatos AP** and **Leone SR**, *J. Phys. Chem. Lett.* vol. 4(21), p. 3667-3671, **2013**. DOI: 10.1021/jz401997d

“Semiconductor Nanowires for Artificial Photosynthesis”, Liu C, Dasgupta NP and **Yang P.** *Chem. Mater.* vol. 26 (1), pp 415-422, **2014**. DOI: 10.1021/cm4023198.